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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/763,531	02/23/2001	Shinji Ogawa	010184	7485

23850 7590 09/29/2003

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EXAMINER
WU, SHEAN CHIU

ART UNIT PAPER NUMBER
1756

DATE MAILED: 09/29/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/763,531	OGAWA ÉT AL.
Office Action Summary	Examiner	Art Unit
	Shean C Wu	1756
The MAILING DATE f this communication app	pears on the cover sheet with the c	correspondence address
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute	136(a). In no event, however, may a reply be tingly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
 Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status 	g date of this communication, even if timely filed	ı, may reduce any
1)⊠ Responsive to communication(s) filed on <u>18 A</u>	<u>August 2003</u> .	
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.	
3) Since this application is in condition for allows		
closed in accordance with the practice under Disp sition of Claims	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.
4)⊠ Claim(s) 1-24 is/are pending in the application	1.	
4a) Of the above claim(s) is/are withdraw		
5)⊠ Claim(s) <u>17,19 and 20</u> is/are allowed.		
6)⊠ Claim(s) is/are rejected.		*
7)⊠ Claim(s) <u>10-13</u> is/are objected to		
8) Claim(s) 1-9,14-16,18 and 21-24 are subject to	o restriction and/or election requir	ement.
Application Papers		
9)☐ The specification is objected to by the Examine	r.	
10)☐ The drawing(s) filed on is/are: a)☐ accept	pted or b) objected to by the Exa	miner.
Applicant may not request that any objection to the		
11) The proposed drawing correction filed on		oved by the Examiner.
If approved, corrected drawings are required in rep	•	
12) The oath or declaration is objected to by the Ex	aminer.	
Pri rity under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:		
1. Certified copies of the priority documents	•	*
2. Certified copies of the priority documents		
3. ☐ Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for domestic		
a) The translation of the foreign language pro		
15) Acknowledgment is made of a claim for domesti		
Attachment(s)		•
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)
S. Patent and Trademark Office		

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DETAILED ACTION

- 1. The indicated allowability of claims 14 and 16 are withdrawn in view of the newly discovered reference(s) to US 4,432,885, Dodds et al. (J. Chem. Soc. Chem. Commun. and Can.
- J. Chem.). Rejections based on the newly cited reference(s) follow. Therefore, the finality of the last Office action is withdrawn.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 16 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Dodds (J. Chem. Soc. Chem. Commun. and Can. J. Chem.).

The compound 3 of the reference (J. Chem. Soc. Chem. Commun.) and the compound 2 and Scheme 1 of the reference (Can. J. Chem.) anticipate the present formula (V-1).

4. Claims 1-9, 14-15 and 21-22 are rejected under 35 U.S.C. 102(b) as being anticipated by US 4,432,885.

The reference discloses a compound represented by the formula XX and XXII.

The formula XX with R¹⁴ being an ester group of XXII (wherein X =oxygen, A=1, 4-cyclohexane ring and R¹⁵=cyano or straight alkyl chain) anticipates the claimed

compound. See col. 32, lines 9-38. Also, see eh formula XXIX and Scheme A. on col. 34. The reference compounds having low threshold voltage and good chemical stability are useful for liquid crystal mixtures.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 23 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 4,432,885 above.

The reference differs from the claims in that the claims have an active matrix or supertwist display device. Because theses two display devices are well known in the art, it would have been obvious to those skilled in the art to utilize the reference compound having better liquid crystal properties to apply the present display devices.

Allowable Subject Matter

7. Claims 10-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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8. Claims 17, 19 and 20 are allowed.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shean C Wu whose telephone number is 703-308-3956. The examiner can normally be reached on Monday-Friday 9:30 -6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 703-308-2464. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Shean C Wu Primary Examiner Page 4

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scw